



Date: Wednesday, 05/11/2008 9:12:15 AM  
 User: Jean-Luc Menard

## Process Sheet

Customer : CC-DAR01 Dart Aerospace Ltd.	Drawing Name : INITIAL PROTOTYPE TEMPLATE
Job Number : 00268A	
Estimate Number : 10068	
P.O. Number :	Part Number : INITIAL PROTOTYPE
This Issue : 05/11/2008 S.O. No. :	Drawing Number :
Prsht Rev. : NC	Project Number : N/A
First Issue : / / Type : R & D LG FAB	Drawing Revision :
Previous Run : 00267A	Material :
Written By : 	Due Date : 23/10/2008 Qty: 1 Um: Each
Checked & Approved By : 	
Comment : Project #:	
Description:	

Additional Product

PROTOTYPE

Job Number:



FOR ENGINEERING USE ONLY

Seq. #:	Machine Or Operation:	Description :
---------	-----------------------	---------------

1.0

MFG ENGINEERING

MFG ENGINEERING



Comment: MFG ENGINEERING

Manufacture Prototype as per Dwg's Supplied By Engineering

Comments:

- PROTO TYPE IB 8-11-5

- M 105411 M606 (T660500 x 10000 x 1)

- Pick:  081112

Qty	Part #	Description	Batch
2	D3730-1	angle	B39053
2	D3741-1	angle	B38825

- Rivet angles to led and to sample step  
 extrusion approx. 6" long.  
 RIVETS CR3213 5-4 M107939 QTY 8  
 RIVETS MS20470 AD5-16 M107100 QTY 8

2.0

WATER JET

FLOW WATER JET



Comment: FLOW WATER JET

## Process Sheet

Customer: CC-DAR01 Dart Aerospace Ltd.

Drawing Name: INITIAL PROTOTYPE TEMPLATE

Job Number: 00268A

Part Number: INITIAL PROTOTYPE

Job Number:



Seq. #:

Machine Or Operation:

Description :

3.0

PG

PURCHASING



*Not applicable*  
*AS 08.12.16*



Comment: PURCHASING

Attached certificate of conformity for raw material and subcomponents use for this w/o

4.0

PACKAGING 1

PACKAGING RESOURCE #1



*Part not tagged "Prototype Eng*  
*use only" AS 08.12.16*



Comment: PACKAGING

Identify "FOR ENGINEERING USE ONLY" and distribute to engineering.

5.0

ENGINEERING 1

ENGINEERING RESOURCE #1



*NOT TO BE STOCKED OR SOLD.*



Comment: ENGINEERING RESOURCE #1

Approval of project manager

*Part good Research assemble*  
*AS 08.12.16 Part in Engineering 16*

6.0

QC21

FINAL INSPECTION/W/O RELEASE



*08/12/16*

Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



*u 08.12.16*

<b>DART AEROSPACE LTD</b>	<b>Work Order:</b>	268 A
<b>Description:</b> ARM AS Ly	<b>Part Number:</b>	D2795-3
<b>Inspection Dwg:</b> D2795-3, Rev:		Page 1 of 1

# FIRST ARTICLE INSPECTION CHECKLIST

## First Article

## Prototype

[illegible]

Measured by:	JB
Date:	8-11-5

<b>Audited by:</b>	NSB
<b>Date:</b>	08.12.16

<b>Prototype Approval:</b>	N/A
<b>Date:</b>	

Rev	Date	Change	Revised by	Approved
A		New Issue	KJ/JLM	

# PROTOTYPE REQUEST FORM

DART Aerospace Ltd.

Product #: D2812-043

Job #: 00569 <sup>00288</sup>

Date: 08.10.30

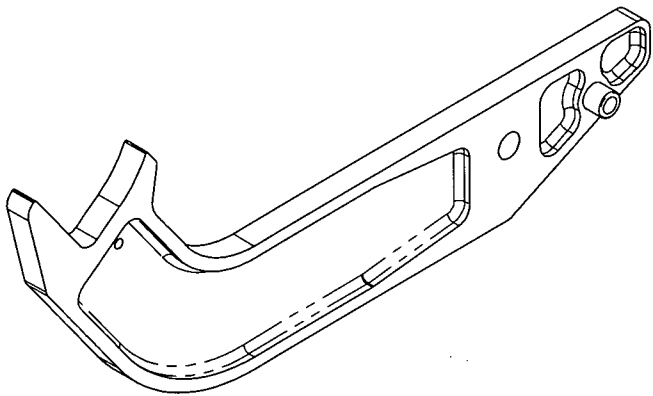
Product Name: STEP

Requested By: AJS

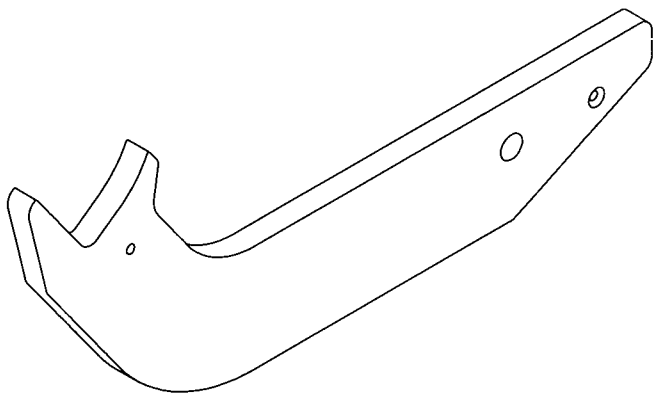
Design Manager Approval: [Signature]

Quantity	Part Number	Category	Description	Drawing Date	Material Cert Req'd?	Due Date	Comments	Date Completed
1	D2812-043		STEP ASSY	08.10.23	N	08.10.28	PRODUCE D2795-3 ARM WITHOUT POCKETS AS	08.11.04
							SHOWN IN DXF SENT TO JLM RIVET 1 ARM TO A SAMPLE	
							PIECE OF STEP EXTRUSION	

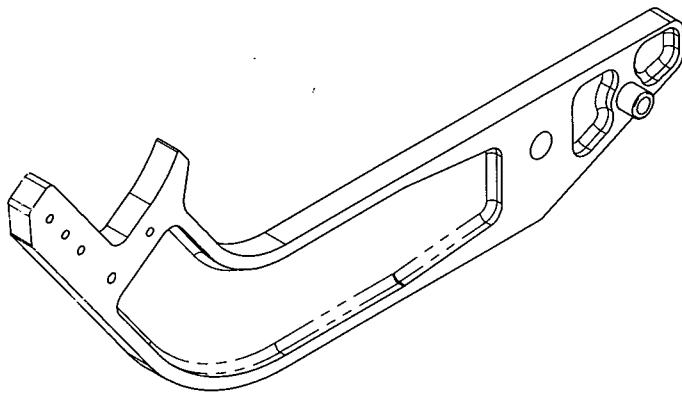
ITEM NO.	QTY. -041	QTY. -042	QTY. -043	QTY. -044	PART NUMBER	DESCRIPTION
1	X				D2795-041	ARM ASSEMBLY
2		X			D2795-042	ARM ASSEMBLY
3			X		D2795-043	ARM ASSEMBLY
4				X	D2795-044	ARM ASSEMBLY
11	1				D2795-1	ARM
12		1			D2795-2	ARM
13			1		D2795-3	ARM
15				1	D2795-4	ARM
21	1	1	1	1	D2808	SPACER



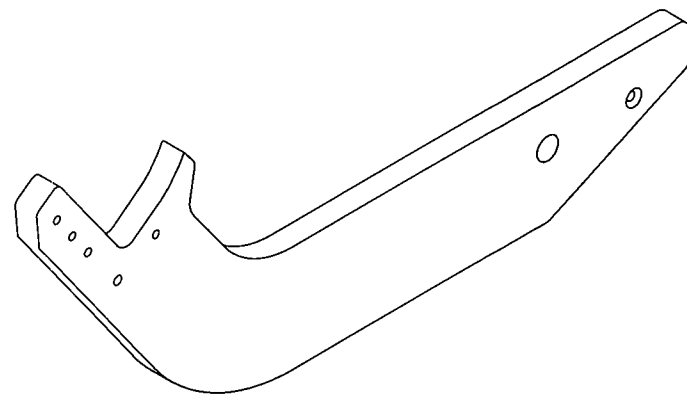
D2795-041 ARM ASSEMBLY



D2795-042 ARM ASSEMBLY



D2795-043 ARM ASSEMBLY

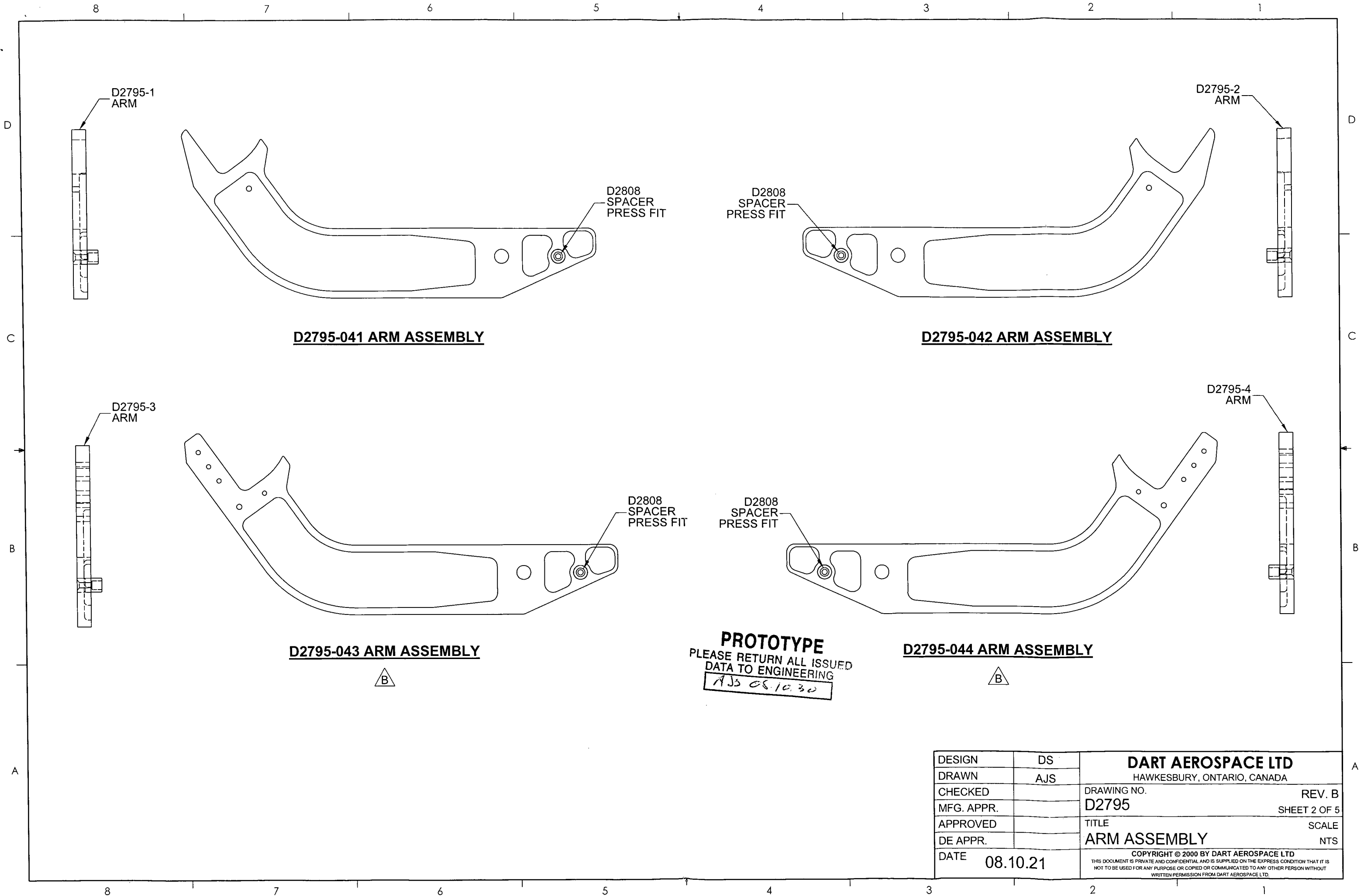


D2795-044 ARM ASSEMBLY

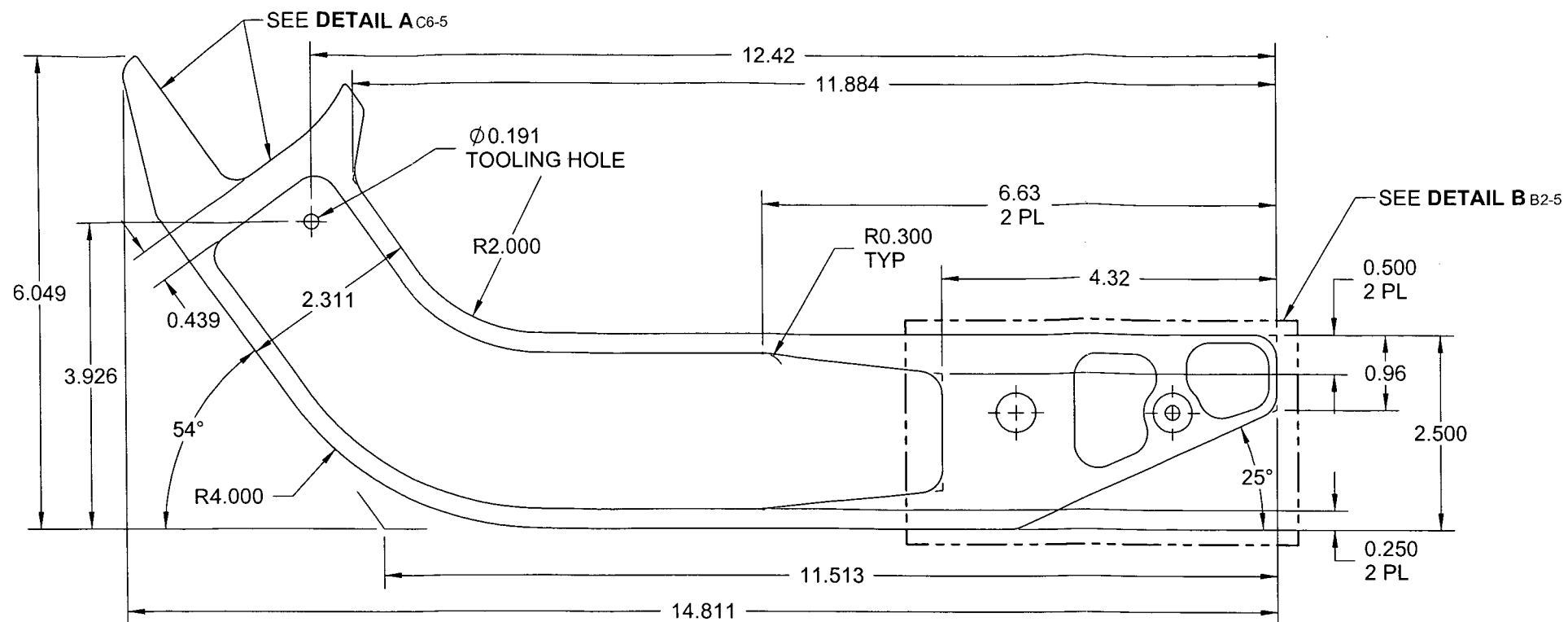
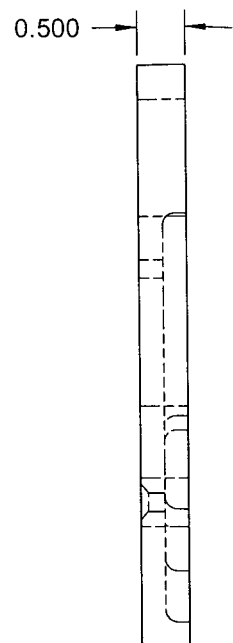
PROTOTYPE  
PLEASE RETURN ALL ISSUED  
DATA TO ENGINEERING  
18 08.10.30

NOTES:  
1) MATERIAL: N/A  
2) FINISH: N/A  
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
4) UNITS: INCHES UNLESS OTHERWISE NOTED  
5) BREAK SHARP EDGES: N/A  
6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2795-04X" USING FINE POINT PERMANENT INK MARKER  
7) WEIGHT: D2795-041/-042 1.22 lbs  
D2795-043/-044 1.29 lbs

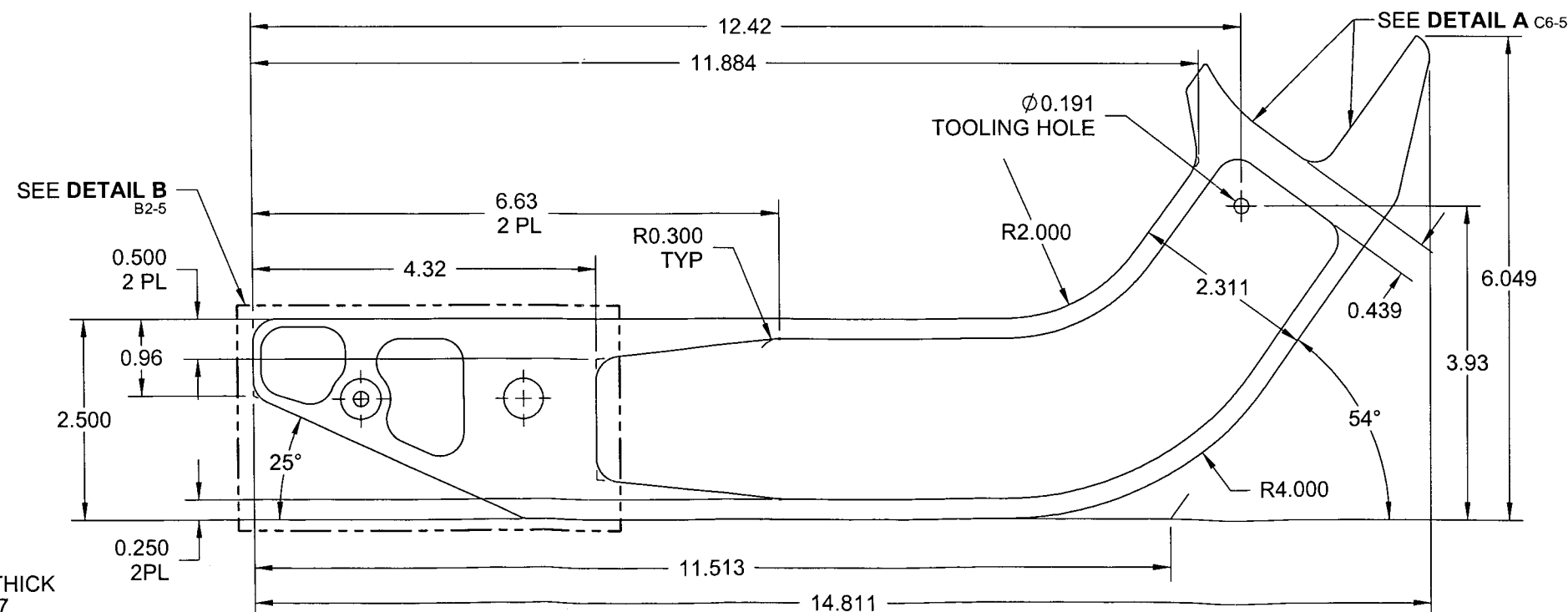
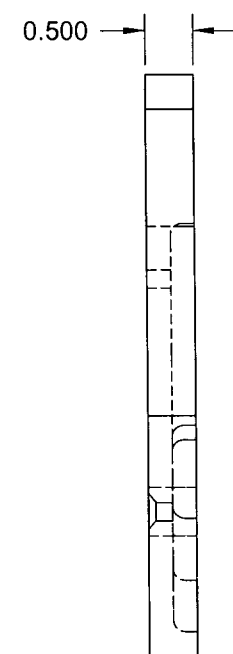
B	REDRAWN IN SOLIDWORKS TO CURRENT DESIGN STANDARDS. -1 & -2 PARTS HAD NO PHYSICAL CHANGES BUT WERE REDIMENSIONED. SEE PREVIOUS REV FOR DETAILS. -043, -044 -3 & -4 ADDED. MATERIAL SPECS UPDATED.	AJS	08.10.21
A	NEW ISSUE	DS	00.11.03
REV.	DESCRIPTION	BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO. D2795	
MFG. APPR.			
APPROVED		TITLE ARM ASSEMBLY	
DE APPR.			
DATE	08.10.21	COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	



DESIGN	DS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		<b>D2795</b>	SHEET 2 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>ARM ASSEMBLY</b>	NTS
DATE	08.10.21	COPYRIGHT © 2000 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



**D2795-1 ARM**



**D2795-2 ARM**

**B**

**NOTES:**

- 1) MATERIAL: 6061-T6 (OR 6061-T62) ALUMINUM SHEET, 0.500 THICK  
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027  
(REF DART SPEC M6061T6S.500)  
OR: 6061-T6 (OR 6061-T651/T6510/T6511/T62) BAR  
PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR  
PER AMS-QQ-A-200/8 (OR AMS 4160)  
(REF DART SPEC M6061T6B)

- 2) FINISH: N/A  
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
4) UNITS: INCHES UNLESS OTHERWISE NOTED  
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
6) IDENTIFICATION: N/A  
7) WEIGHT: SEE ASSEMBLED WEIGHT

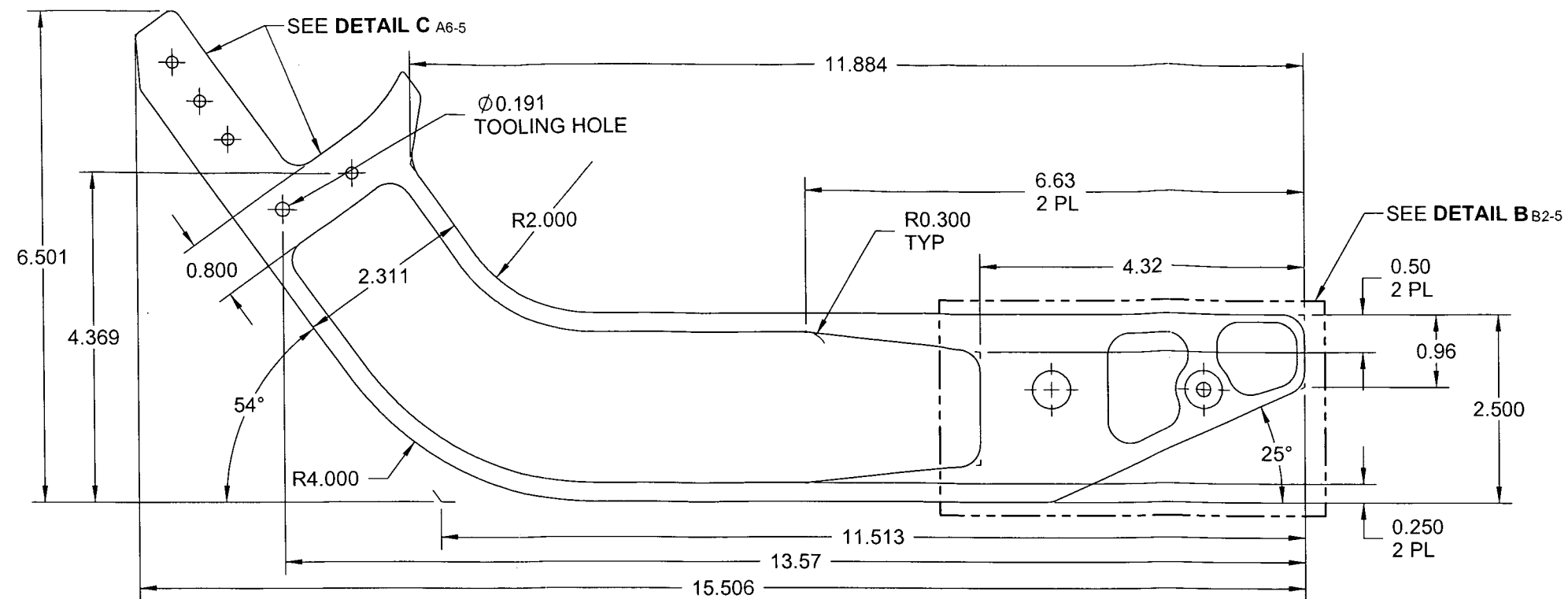
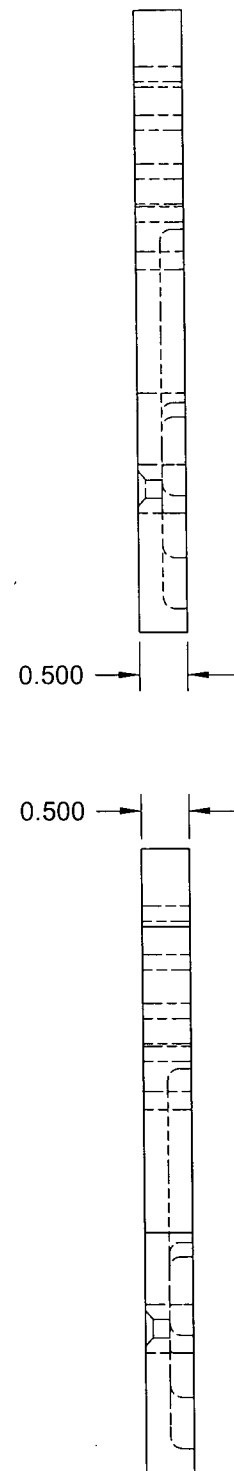
**PROTOTYPE**  
PLEASE RETURN ALL ISSUED  
DATA TO ENGINEERING

11.08.10.30

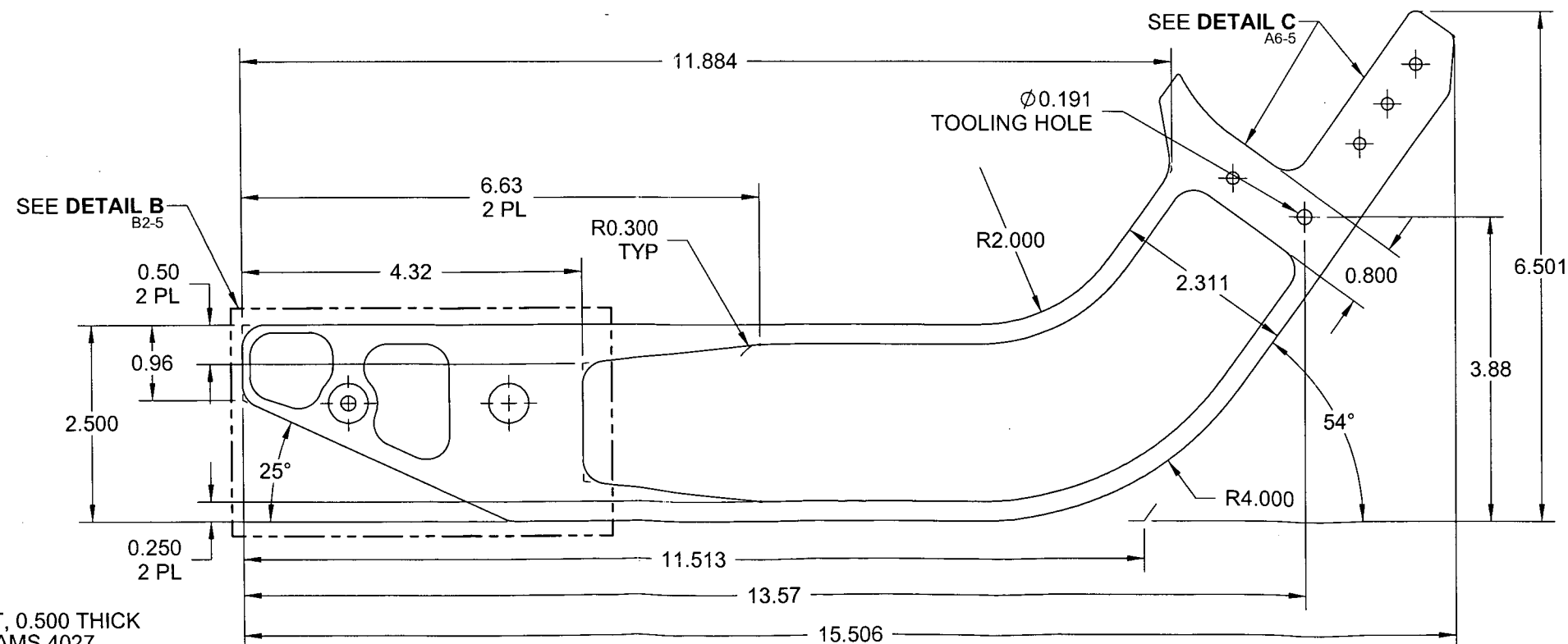
DESIGN	DS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO. <b>D2795</b>	REV. B
MFG. APPR.			SHEET 3 OF 5
APPROVED		TITLE <b>ARM ASSEMBLY</b>	SCALE NTS
DE APPR.		COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	
DATE	08.10.21		







**D2795-3 ARM**



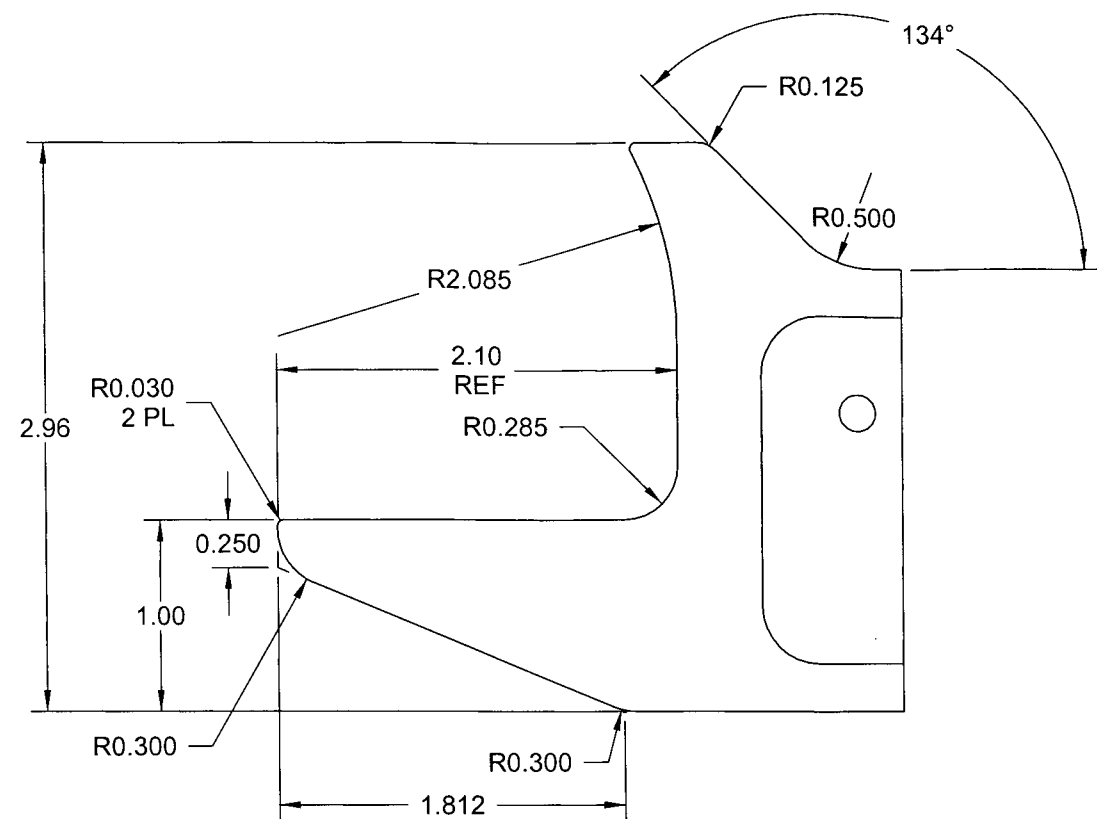
**D2795-4 ARM**

**PROTOTYPE**  
PLEASE RETURN ALL ISSUED  
DATA TO ENGINEERING  
*AS 508.1030*

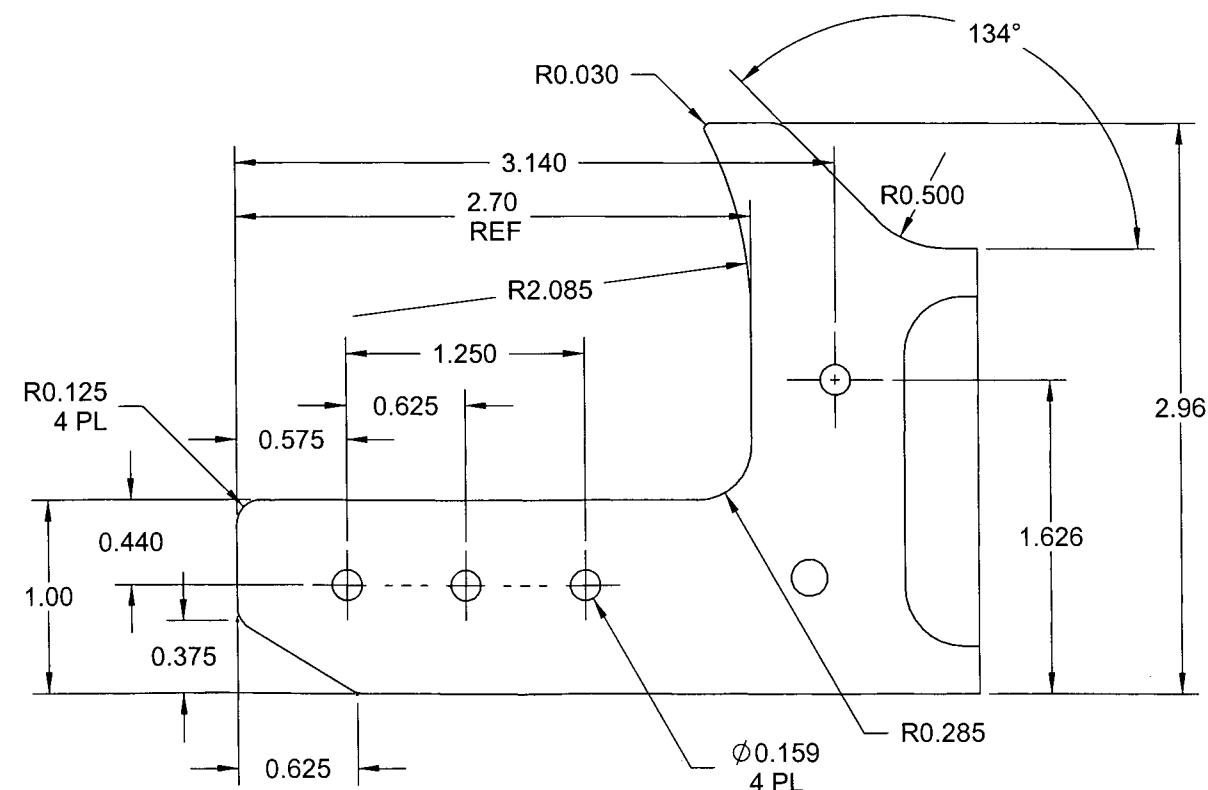
- NOTES:
- 1) MATERIAL: 6061-T6 (OR 6061-T62) ALUMINUM SHEET, 0.500 THICK  
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027  
(REF DART SPEC M6061T6S.500)  
OR: 6061-T6 (OR 6061-T651/T6510/T6511/T62) BAR  
PER AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116) OR  
PER AMS-QQ-A-200/8 (OR AMS 4160)  
(REF DART SPEC M6061T6B)
  - 2) FINISH: N/A
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: N/A
  - 7) WEIGHT: SEE ASSEMBLED WEIGHT

DESIGN	DS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		<b>D2795</b>	SHEET 4 OF 5
APPROVED		TITLE	SCALE
DE APPR.		<b>ARM ASSEMBLY</b>	NTS
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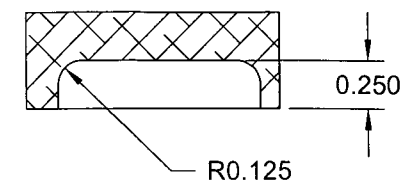
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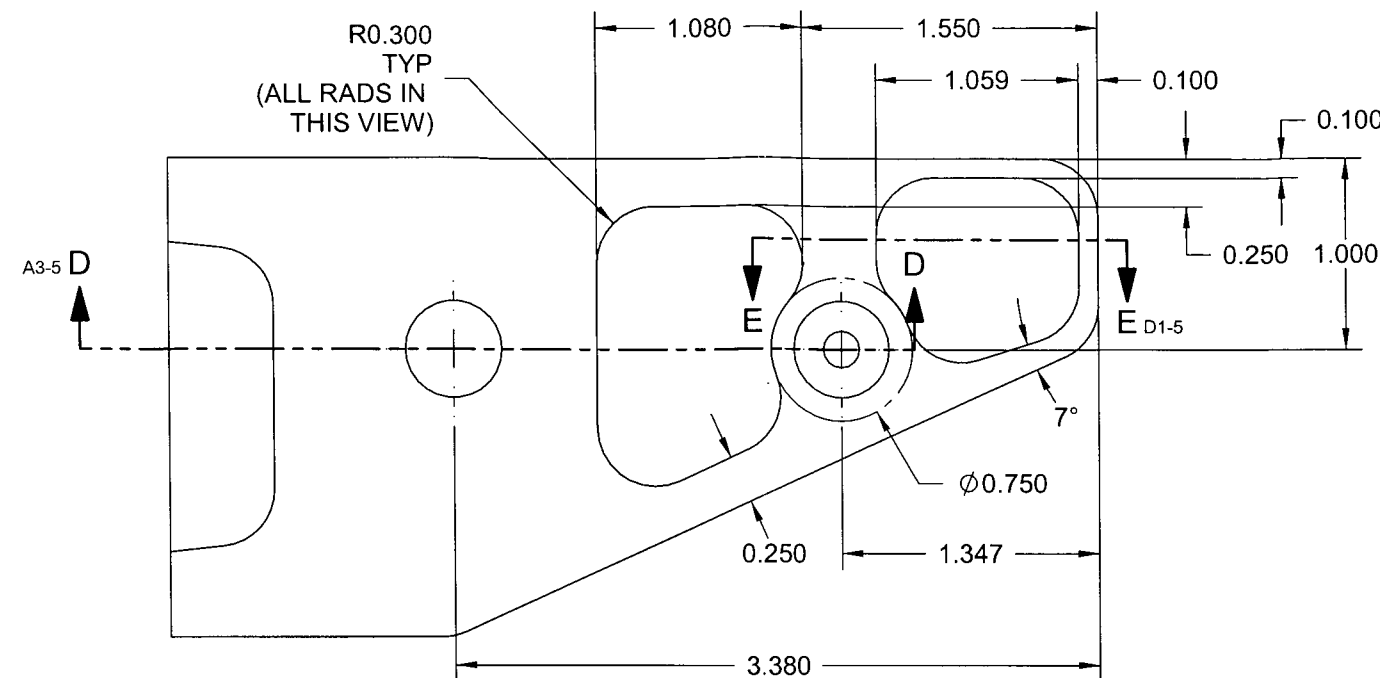
**DETAIL A**  
(-1 SHOWN  
-2 OPPOSITE)  
D4-3  
C1-3



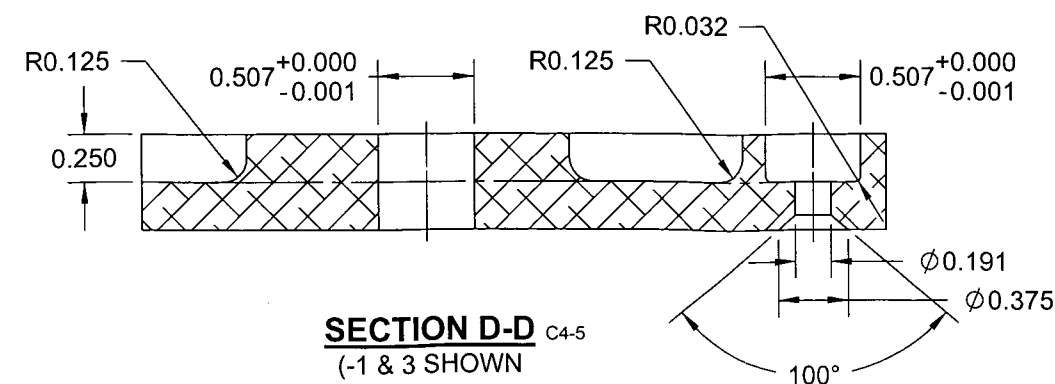
**DETAIL C**  
(-3 SHOWN  
-4 OPPOSITE)  
C2-4  
D5-4



**SECTION E-E**  
(-1 & 3 SHOWN  
-2 & 4 OPPOSITE)  
C1-5



**DETAIL B**  
(-1 & 3 SHOWN  
-2 & 4 OPPOSITE)  
D1-3  
B6-3  
D1-4  
B6-4

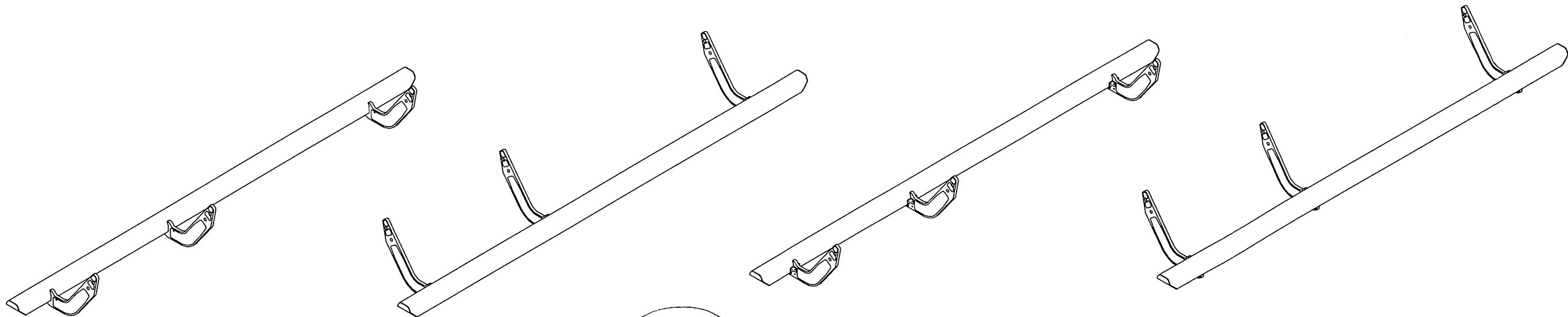


**SECTION D-D**  
(-1 & 3 SHOWN  
-2 & 4 OPPOSITE)  
C4-5

**PROTOTYPE**  
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AJS 08.10.30

DESIGN	DS	<b>DART AEROSPACE LTD</b>	
DRAWN	AJS	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D2795	SHEET 5 OF 5
APPROVED		TITLE	SCALE
DE APPR.		ARM ASSEMBLY	NTS
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ITEM No.	QTY. -041	QTY. -042	QTY. -043	QTY. -044	PART NUMBER	DESCRIPTION
1	X				D2812-041	STEP WELDMENT
2		X			D2812-042	STEP WELDMENT
3			X		D2812-043	STEP ASSEMBLY
4				X	D2812-044	STEP ASSEMBLY
11	1	1	1	1	D2812-1	STEP
15	3				D2795-1	ARM
16		3			D2795-2	ARM
17			3		D2795-3	ARM
18				3	D2795-4	ARM
19	2	2	2	2	D2875	END PLATE
20			6	6	D3730-1	ANGLE
21			6	6	D3741-1	ANGLE
30			19	19	CR3216-5-4	RIVET
31			12	12	MS20470AD5-16	RIVET



D2812-041 STEP WELDMENT

D2812-042 STEP ASSEMBLY

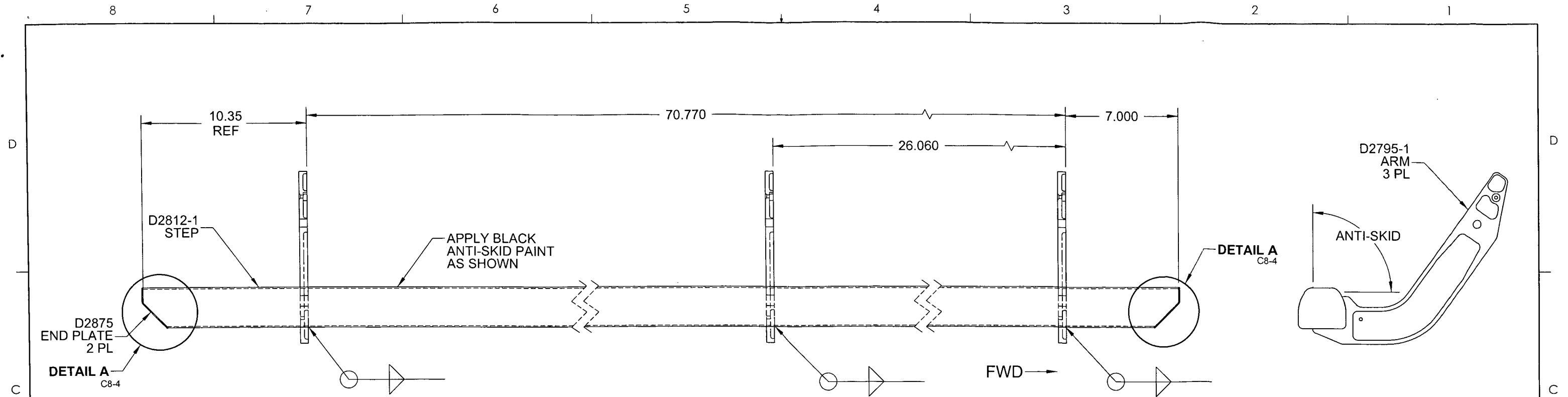
D2812-043 STEP ASSEMBLY

D2812-044 STEP ASSEMBLY

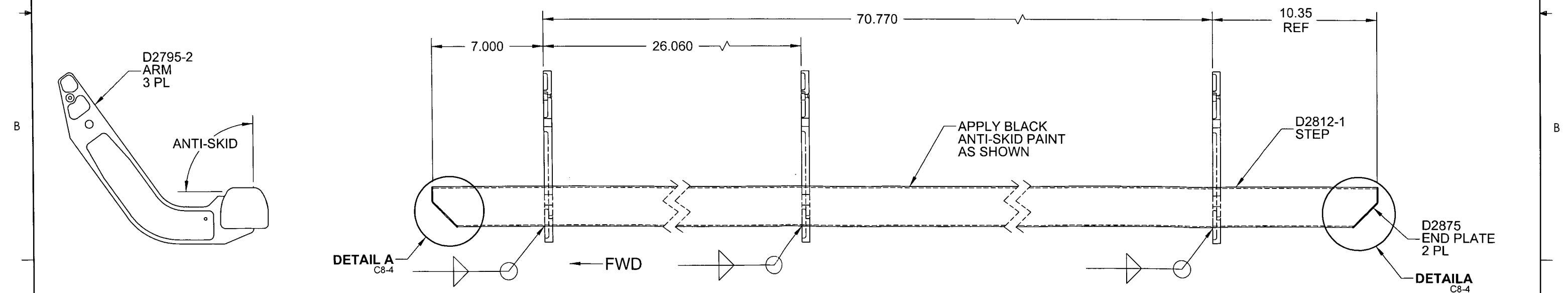
PROTOTYPE  
PLEASE RETURN ALL ISSUED  
DATA TO ENGINEERING  
AJS 08.10.30

B	REDRAWN IN SOLIDWORKS TO CURRENT DESIGN STANDARDS. -041 & -042 UNCHANGED. ADDED -043 & -044 TO ELIMINATE NEED FOR WELDING.		AJS	08.10.23
B	NEW ISSUE		DS	00.11.03
REV.	DESCRIPTION		BY	DATE
DESIGN	DS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA		
DRAWN	AJS			
CHECKED		DRAWING NO.		REV. B
MFG. APPR.		D2812		SHEET 1 OF 4
APPROVED		TITLE		SCALE
DE APPR.		STEP ASSEMBLY		NTS
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**D2812-041 STEP WELDMENT**



**D2812-042 STEP WELDMENT**



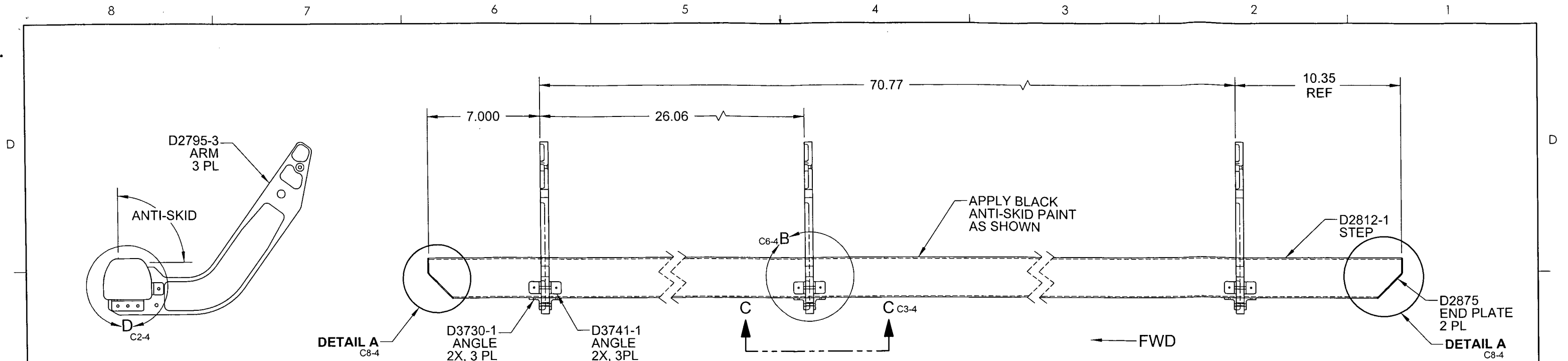
**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
POWDER COAT GLOSS WHITE (4.3.5.1) OR  
GREY SANDEX (4.3.5.6) OR  
GREEN SANDEX (4.3.5.8) PER DART QSI 005 4.3  
APPLY BLACK ANTI-SKID PER DART QSI 005 4.4 WHERE INDICATED
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2812-04X" USING FINE POINT PERMANENT INK MARKER
- 7) WEIGHT: 10.10 lbs
- 8) WELD PER QSI 004 UNLESS OTHERWISE NOTED.

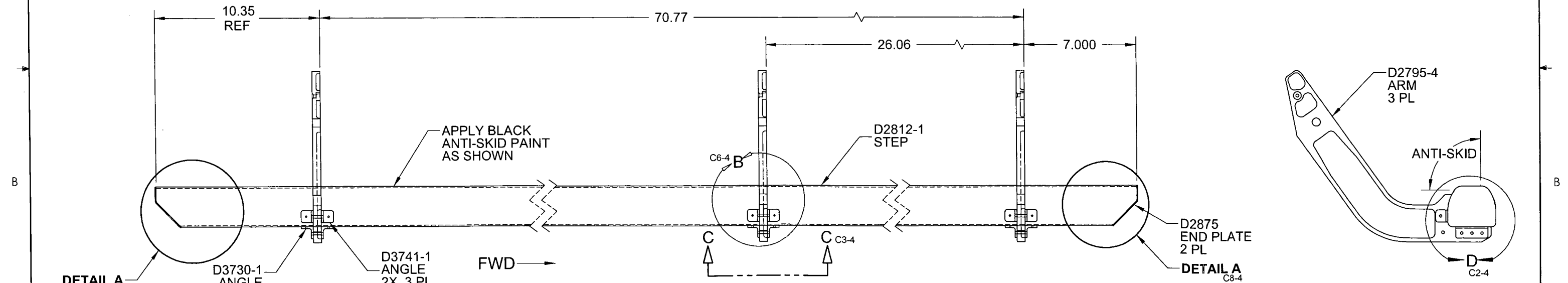
**PROTOTYPE**  
PLEASE RETURN ALL ISSUED  
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*14.55 08.10.30*

DESIGN	DS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO. <b>D2812</b>	REV. B
MFG. APPR.			SHEET 2 OF 4
APPROVED		TITLE <b>STEP ASSEMBLY</b>	SCALE NTS
DE APPR.		COPYRIGHT © 2000 BY DART AEROSPACE LTD	
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**D2812-043 STEP ASSEMBLY**



**D2812-044 STEP ASSEMBLY**

- NOTES:**
- 1) MATERIAL: N/A
  - 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1  
POWDER COAT GLOSS WHITE (4.3.5.1) OR  
GREY SANDTEX (4.3.5.6) OR  
GREEN SANDTEX (4.3.5.8) PER DART QSI 005 4.3  
APPLY BLACK ANTI-SKID PER DART QSI 005 4.4 WHERE INDICATED
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: N/A
  - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D2812-04X" USING FINE POINT PERMANENT INK MARKER
  - 7) WEIGHT: 10.58 lbs

**PROTOTYPE**  
PLEASE RETURN ALL ISSUED  
DATA TO ENGINEERING  
*155 08.10.30*

DESIGN	DS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	AJS		
CHECKED		DRAWING NO.	REV. B
MFG. APPR.		D2812	SHEET 3 OF 4
APPROVED		TITLE	SCALE
DE APPR.		STEP ASSEMBLY	NTS
DATE 08.10.23		COPYRIGHT © 2000 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.	

